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tween Asia and the New World; and the social aspects of race factors in the Pacific area.

Two general topics will be considered in the agricultural sessions: The relation of agriculture to the food supply of the country, and problems of agricultural conservation. In the treatment of these topics sessions will be devoted to problems of animal production, nutrition, agronomy, soil analysis, general problems of agricultural chemistry and progress in horticultural science.

Papers upon any of these subjects are cordially invited from all members of the American Association and of societies participating in these meetings. Contributions of important work in any other lines of research will also be welcomed and will be included in the programs in so far as time will permit.

SCIENTIFIC NOTES AND NEWS

THE present number of *SCIENCE* completes the fortieth volume and the twentieth year of the journal under the present editorship. *SCIENCE* was established in 1883 by Dr. A. Graham Bell and Gardiner G. Hubbard. The president of the board of directors was D. C. Gilman, the vice-president, Simon Newcomb and the editor S. H. Scudder. In 1900 *SCIENCE* became the official organ of the American Association for the Advancement of Science, and its membership has since increased from 1,721 to over 8,000. The journal has witnessed and to a certain extent assisted the remarkable advance in scientific research which has taken place in America in the course of the past forty years.

At a joint session of the physiological, biochemical, pharmacological and pathological societies, meeting at St. Louis, on December 28, papers will be presented in memory of S. Weir Mitchell, by Professor Edward T. Reichert, University of Pennsylvania, and of Charles Sedgwick Minot, by Professor Frederic S. Lee, Columbia University.

PROFESSOR EDWARD S. MORSE, director of the Peabody Museum, has been elected president of the Boston Society of Natural History, succeeding the late Professor Charles Sedgwick Minot.

PROFESSOR GEORGE QUINCKE, the distinguished physicist of the University of Heidelberg, has celebrated his eightieth birthday.

DR. JAMES WITHEYCOMBE, who was director of the Oregon Agricultural College for nearly fourteen years, will soon enter upon his new duties as governor of Oregon, to which office he was recently elected by an unprecedented majority.

At the annual meeting of the trustees of the Carnegie Institution of Washington there were elected as trustees Senator Henry Cabot Lodge, of Massachusetts; Dr. George Wharton Pepper, of Philadelphia, formerly professor of law in the University of Pennsylvania; Dr. Theobald Smith, who has resigned the chair of comparative pathology at Harvard University to become a member of the Rockefeller Institute for Medical Research, and Mr. Charles Payne Fenner, of Louisiana. Dr. Simon Flexner, director of the laboratories of the Rockefeller Institute, has resigned as a trustee of the Carnegie Institution.

THE statement regarding the award of the Hayden Memorial gold medal by the Academy of Natural Sciences of Philadelphia, in *SCIENCE* for December 18 requires a correction. After the modification of the deed of trust in 1900, the first gold medal was given to Sir Archibald Geikie, in 1902, the second to Dr. Charles Walcott in 1905, the third to Dr. John Mason Clarke in 1908, and the fourth to Dr. John Casper Branner in 1911.

At its last meeting, the Rumford Committee of the American Academy made the following appropriations: For the purchase of a refrigerating apparatus for the academy, the same to be loaned to Professor C. A. Kraus for his research on solutions in liquid ammonia, \$300. For the purchase of a motor generator for the academy, the same to be loaned to Dr. H. P. Hollnagel for his research on the extreme infra-red portion of the spectrum, \$300.

THE National Society for the Promotion of Industrial Education, at its recent meeting at Richmond, has elected the following officers: *President*, William C. Redfield, secretary of commerce; *Vice-president*, Cheesman A. Herrick, president of Girard College;

Philadelphia; *Treasurer*, Frederick B. Pratt, secretary, Pratt Institute, Brooklyn, N. Y.

DR. GEORGE W. CRILE, of the Medical School of Western Reserve University, will leave Cleveland on December 30 for the American Ambulance Hospital, near Paris, to assist in its work.

DR. ALEXIS CARREL, of the Rockefeller Institute for Medical Research, is making a study of the French military medical establishments at the front under the auspices of the government.

DR. ELIE METCHNIKOFF, the eminent Russian pathologist, who for the last twenty-six years has been engaged in research at the Pasteur Institute in Paris, will be seventy years old next year, and a *Festschrift* for him has been in preparation at Paris for this anniversary. The *Journal of the American Medical Association* states that Dr. Emil von Behring, of Marburg, had intended to contribute an article to it, but the breaking out of the war prevented his article reaching the publishers on time, that is before September 1. He now publicly announces (November 12) that he hopes "before the anniversary in question, next May, to manifest in some other way my respect and unwavering friendly sentiments for Metchnikoff on the occasion of his seventieth birthday.

ON December 7, Professor C. J. Keyser, who was a guest of the faculty of Washington University at a smoker held at the Faculty Club of that institution, spoke on the demand for advanced avocational instruction and the obligation of universities to provide it. On the following evening he delivered an address on "Science and Religion" under the auspices of the Washington University Association.

DR. A. G. WORTHING, of the Nela Research Laboratory, Cleveland, addressed a meeting of the physics colloquium of the University of Illinois on December 9, on "Optical Pyrometry and some of Its Applications."

DR. R. RUGGLES GATES, of the University of London, lectured before the Washington University Association, St. Louis, in November,

on "The Modern Study of Heredity" and "The Present Status of Evolution."

THE death is announced of Colonel Edward Daniel Meier, past president of the American Society of Mechanical Engineers.

FAYETTE CLAY EWING, JR., associate professor of civil engineering in the University of the South, died suddenly of heart failure at Sewanee, Tenn., on November 28. Mr. Ewing, who was in the twenty-eighth year of his age, was a young engineer and teacher of marked promise. He graduated at the University of Virginia in 1910 with the degree of C.E., and, before going to Sewanee last May, had been connected with railway practise.

ARCHIBALD ROSS COLQUHOUN, the British traveler and explorer, died on December 18, at the age of sixty-six years.

DR. CHARLES PÉRIER, president of the French Academy of Medicine, one of the most distinguished surgeons in France, died on December 13, aged seventy-eight years.

AMONG those killed in the war are: Dr. Alfred Grund, professor of geography in the German University of Prague; Dr. Franz Waterstradt, professor of agriculture in the Agricultural School at Hohenheim; Dr. Fritz Ludwig Kohlrausch, professor for work in radium in the mining school at Freiburg, and Dr. Fricke, professor of forestry in the Forest Academy at Münden.

LARGE bequests for public purposes are made by the will of Mrs. Mary Anna Palmer Draper, to whom in her lifetime science was greatly indebted for intelligent and generous support. Mrs. Draper bequeaths \$150,000 to the Harvard College Observatory for the Draper memorial, established in memory of Dr. Henry Draper, her husband, whose photographic plates and apparatus are also bequeathed to the observatory. The sum of \$450,000 is given to the New York Public Library, \$200,000 for a memorial to Dr. John S. Billings, and \$200,000 as a memorial to her father, Courtland Palmer. The income of these funds is to be used for the purchase of books, and an additional trust fund of \$50,-

000 is given for the benefit of the employees of the library. There is also a bequest of \$25,000 to the Smithsonian Institution; a bequest of objects of art with \$20,000 for their care to the Metropolitan Museum; of \$50,000 to the New York Polyclinic Hospital; of \$25,000 to the New York Skin and Cancer Hospital, and of \$25,000 to the laboratory of surgical research of New York University, of whose medical department Dr. Henry Draper was at one time dean.

SECTION L—Education—of the American Association for the Advancement of Science, of which the chairman is Professor Paul H. Hanus, of Harvard University, and the secretary, Stuart A. Curtis, has arranged a two-days' program, that of Wednesday, December 30, being devoted to educational measurement, and that of Thursday, December 31, to the exceptional child. In the mornings there will be presented some thirty ten-minute papers, giving the results of researches on these subjects, and on each afternoon there will be four half-hour addresses. The address of the retiring vice-president and chairman, Dr. P. P. Claxton, U. S. Commissioner of Education, is on the American rural school.

As has already been stated in *SCIENCE* the American Physiological Society will hold its twenty-seventh annual meeting at St. Louis, Mo., December 27-30. Scientific papers and demonstrations for the meeting have been reported by the following: R. W. Keeton and F. G. Koch; F. S. Lee and C. L. Scott; F. P. Knowlton and A. C. Silvermann; Ida M. Hyde; F. I. Zeman, J. Kohn and P. E. Howe; S. Tashiro; R. S. Pearce; S. Simpson and R. L. Hill; W. L. Gaines; W. B. Cannon, C. A. Binger and R. Litz; C. C. Fowler, M. E. Rehfus and P. B. Hawk; W. H. Spencer, M. E. Rehfus and P. B. Hawk; R. S. Hoskins; H. McGuigan and C. L. v. Hess; W. E. Burge; F. C. MacLean; G. W. Crile, F. W. Hitchings and J. B. Austin; A. L. Beifeld, H. Wheelon and C. R. Lovelette; F. F. Rogers and L. L. Hardt; C. H. Dallwig, A. C. Kolls and A. S. Loevenhart; J. F. McClendon; K. R. Drinker and C. K. Drinker; M. L. Fleisher

and L. Loeb; F. S. Lee and D. J. Edwards; B. H. Schlomovitz, J. A. E. Eyster and W. J. Meek; J. A. E. Eyster and W. J. Meek; C. Brooks and A. B. Luckhardt; S. Simpson and A. T. Rasmussen; T. S. Githens and S. J. Meltzer; C. Voegtlin; B. M. Potter; E. G. Martin and P. G. Stiles; M. Dresbach; W. J. Meek and J. A. E. Eyster; E. G. Martin; H. Ginsburg; A. J. Carlson; F. C. Becht and H. McGuigan; H. R. Basinger and A. L. Tatum; C. Voegtlin.

A PRESS dispatch from Denver states that the Federal Commission on Industrial Relations has determined upon an investigation of the country's benevolent organizations. The scope of the investigation is said to be stated by Mr. Frank P. Walsh, chairman of the commission, as follows:

The commission will investigate the rights, powers and functions of self-perpetuating organizations under their present charters and the extent to which these charters may be stretched under the present Constitution of the United States and the restrictions which present constitutional limitations impose. It will investigate the attitude of high finance toward industrial questions—what organizations such as the Rockefeller Foundation are doing to relieve industrial unrest; how the policies of these organizations are shaped and by whom; what part the source of their income plays in determining what these policies shall be; whether self-perpetuating organizations such as the Rockefeller Foundation are a menace to the future political and economic welfare of the nation; what figure they cut in politics; the labor policy of "Big Business" in general.

A CABLEGRAM to the daily papers says that when the war broke out the Prussian military authorities requisitioned the trained horses of Elberfeld. Dr. Vogel, their owner, protested and the Royal Academy of Berlin supported the protest. A reprieve was granted, but later the horses were requisitioned for an artillery battery and their death on a Flanders battlefield has just been announced. It will be remembered that the "thinking horses" of Elberfeld were first brought to the attention of the public some years ago by their trainer,

Herr K. Krall, who exhibited them at various places in Germany.

IN accordance with its usual custom the faculty of medicine of Harvard University will offer a course of free public lectures to be given at the Medical School, on Sunday afternoons, beginning January 3 and ending May 9. The schedule follows:

January 3—Dr. Reid Hunt. Drugs.

January 10—Dr. John Lovett Morse. The care and training of older children.

January 17—Dr. J. L. Goodale. Susceptibility and resistance in diseases of the nose and throat.

January 24—Dr. Alexander Quackenboss. Catarract; its nature and treatment.

January 31.—Dr. William P. Graves. Heredity.

February 7—Dr. S. A. Hopkins. Mouth hygiene as a factor in sickness and health.

February 14—Dr. Harris P. Mosher. Catarrh.

February 21—Dr. George S. Derby. The preservation of the eyesight.

February 28—Dr. Franklin W. White. Food in health and disease. "Food fads." "Health foods." "Vegetarianism."

March 7—Dr. E. G. Martin. Fatigue and rest.

March 14—Dr. F. S. Newell. Modern obstetrics. (To women only.)

March 21—Dr. G. S. C. Badger. Common colds.

March 28—Dr. Percy Brown. The use of X-rays as an aid to our knowledge of disease in the stomach and bowels.

April 4—Dr. R. B. Osgood. The cause and prevention of chronic rheumatism.

April 11—Dr. C. A. Porter. What surgery can do for chronic indigestion.

April 18—Dr. Paul Thorndike. The bladder ailments of man in later life. (To men only.)

April 25—Dr. E. H. Place. What may we do in diminishing the dangers of contagious disease?

May 2—Dr. E. E. Southard. Sex differences in the human brain.

May 9—Dr. W. B. Lancaster. Lighting. Good and bad lighting; its effects on the eyesight.

THE *Journal* of the American Medical Association states that the Rockefeller Sanitary Commission which has had in charge the eradication of hookworm in the southern states under the fund of \$1,000,000 granted by John D. Rockefeller in 1909, will disband at the close of the present year. The forces of the commission at that time will be withdrawn

from all the states in which they have been working except eight, and the work in these will be taken over by the Rockefeller Foundation, a separate organization. The foundation will close up the work in five of the eight states March 1, 1915, and the remaining three on June 30. Under the foundation there has been created an International Commission on Health which will undertake work for the promotion of health in all parts of the world in cooperation with health departments of all countries, and especially will cooperate in the constructive development of state health forces, not alone with reference to hookworm, but in connection with other health conditions.

ANOTHER year's laying record of hens bred from selected strains has been compiled by the poultry department of the Oregon station. A flock of fifty hens averaged 213 eggs each during the calendar year, November 1, 1913, to November 1, 1914. If the actual laying year of each hen is counted the average number of eggs laid becomes 220. The world's champion layer, which last year laid 303 eggs in 365 days, has broken the two-year record by the production of 505 eggs in two years, while another hen has averaged more than 200 eggs a year for four years, having laid 819 eggs within that time.

UNIVERSITY AND EDUCATIONAL NEWS

MR. J. ARTHUR BEEBE has bequeathed \$150,000 to the building club of the Harvard Club of Boston; \$10,000 to the fund of the Harvard class of 1869, of which class he was a member, though he left before graduation; \$10,000 for music at Harvard College, and \$5,000 to Dr. F. C. Shattuck for investigations of tropical diseases. The residue of the estate, after some personal bequests have been paid, is bequeathed to Harvard University, the income to be used for the general purposes of the university.

THE University of Pennsylvania will be the ultimate beneficiary of the \$200,000 estate of William B. Irvine, ex-city treasurer, who died December 6. The money will provide either a building for a school of mining engineering or an auditorium.